

N^o 4918



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Complete Specification Left, 28th Nov., 1898—Accepted, 21st Jan., 1899

PROVISIONAL SPECIFICATION.

Improvements in Tobacco or other Presses.

I, WILLIAM ROWLANDSON, of 132, Boundary Street, in the City of Liverpool, Engineer, do hereby declare the nature of this invention to be as follows:—

This invention has for its object a two ram tobacco press or for pressing other like material, and consists essentially in a revolving table having four moulds on
5 diameters on the revolving table at right angles to each other. When two of the moulds come exactly over two of the rams the table comes against a stop and can go no further in its rotation. When it is rotated in the opposite direction and the other two moulds come over the rams again the table comes against a stop and can go no further. A rack and pinion device on the same side of the table
10 as the ram presses the tobacco out of the holes after ramming. I may ram several packets of tobacco at a time in the same hole if desirable placing a plate filling the area of the mould between each packet. The ram can either press downwards, upwards or horizontally. I prefer it to press upwards against a head plate. The mode of action is as follows:—The table being revolved till it comes
15 against the stop two of the moulds are filled with tobacco, the plungers are now caused to descend pressing the tobacco. In some instances where I press several packets one over the other they can all be placed in at once or I press one packet, then place a disc over it, place another disc over that and place a third, or I may only press a single packet at a time. The ram now rises, the table is turned till
20 a projection on it comes against the other stop and the rams are caused to press the alternate moulds which in the meantime have been filled. While the ram is pressing these the rack and pinion device lifts the material already pressed out of the other moulds; this is removed, the rack lowered and the two moulds filled again with tobacco ready for pressing in their turn. In thus describing my in-
25 vention I do not bind myself to a rack and pinion ejector as it is obvious that especially in cases where the pressure is downward a lever device, a screw device or other like mechanism can be employed as an ejector.

Dated the 26th day of February 1898.

WM. P. THOMPSON & Co.,

30 Of 6, Lord Street, Liverpool, Patent Agents for the Applicant.

COMPLETE SPECIFICATION.

Improvements in Tobacco or other Presses.

I, WILLIAM ROWLANDSON, of 132, Boundary Street, in the City of Liverpool, Engineer, do hereby declare the nature of this invention and in what manner the

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same is to be performed, to be particularly described and ascertained in and by the following statement:—

This invention has for its object a two ram press for pressing tobacco or other like material.

It is best described by aid of the accompanying drawings, in which, 5

Fig. 1 is an elevation of the entire apparatus,

Fig. 2 a plan view of the central or rotating part,

Fig. 3 a plan view of the press with the top and rotating parts removed.

In these A A are the hydraulic cylinders, B B bolt standards fastening C the top member firmly to the lugs D on the cylinders. E is a bolt passing through 10 the three parts of the apparatus fastened by nuts at top and bottom and acting as an axis on which the part shown in Fig. 2 turns. G the rotating table shown in Fig. 2. This is formed with a flat upper surface having four large square sockets H at four points equi distant from each other and equi distant from the centre bolt E, the lines connecting the centres of these sockets and the centre 15 of the bolt being at right angles to each other. I I are two beaks cast or rigidly fixed on the rotating part G and so placed that the part G can only rotate through an angle of exactly ninety degrees owing to beaks I coming in contact with the bolt B; any other abutment than bolt B could be used for this purpose. J is the head plate of the plunger K. L shown in dotted lines in Fig. 1 is the bearing of 20 the rotating piece G. M M two holes in the base plate N through which a rack and pinion or other device rises immediately after the table G has been turned round so as to press up the packet of tobacco that has been pressed.

The mode of action is as follows;—

Two men stand each of them on one side of the two rams. A plate is placed 25 over the plunger accurately fitting the socket H. The tobacco required to be pressed into a packet is placed on this plate and another plate is generally placed above. Each of the men having done this with their respective sockets the table G is turned a quarter round and the press caused to descend. In the meantime the men are each getting tobacco to press, and the rack and pinion ejects the packets 30 which have been previously pressed. The men move these packets away and as the rack descends carry on the procedure already described. In thus describing my invention it is obvious that the press can be made to press upwards, downwards, or even horizontally or obliquely. Also sockets can be made deep enough for packets to be pressed one above another each being separated by a socket plate. 35 Furthermore if the stopping mechanism be very accurate the plunger head can be made the exact area of the socket and thus the use of plates could be done away with. I prefer however to use plates and one great advantage of using plates is that very exact registration between the plunger and the socket is not requisite as the plunger being made of considerably less diameter than the socket plate 40 or the socket hole a considerable latitude can be allowed. The great advantage of this machine is that two men can be occupied over it and that while two packets are being pressed the packets which have been already pressed can be withdrawn and the unpressed material can be collected on the side of the socket and be placed in the socket ready for pressing and thus there is the least possible waste of 45 time.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. The improvement in tobacco or other like presses which consists in having 50 two rams and four sockets the latter rotating round a centre exactly equi distant and in line with the axes of the two rams whereby while the tobacco in one pair of sockets is being pressed the operators can be removing the already pressed packets and preparing the free sockets for receiving the rams in their turn substantially as described. 55

Rowlandson's Improvements in Tobacco or other Presses.

2. The apparatus for pressing tobacco constructed and arranged substantially as herein described and illustrated in the accompanying drawings.

Dated the 26th day of November 1898.

WM. P. THOMPSON & Co.,

Of 6, Lord Street, Liverpool, Patent Agents for the Applicant.

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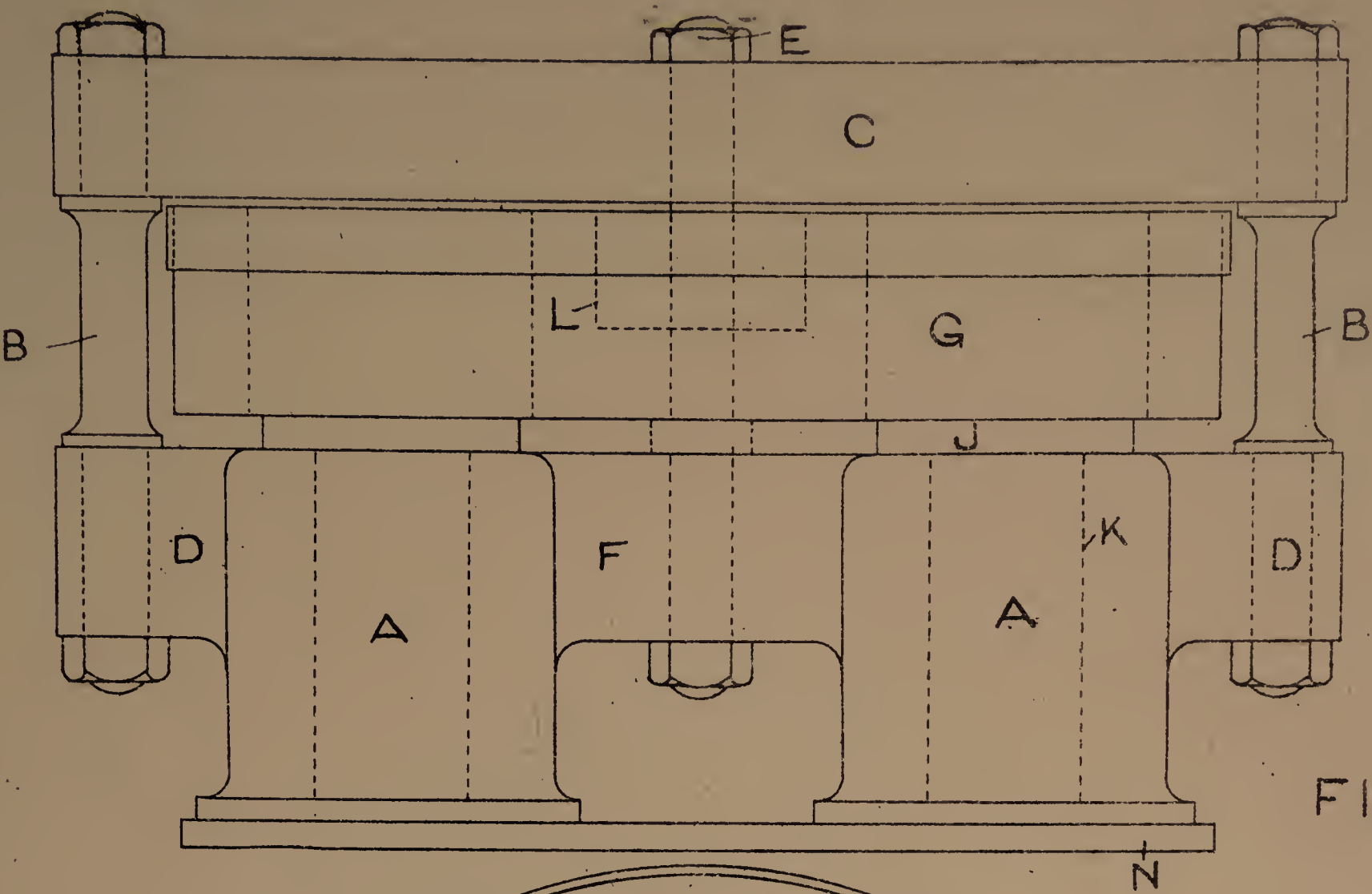


FIG. 1.

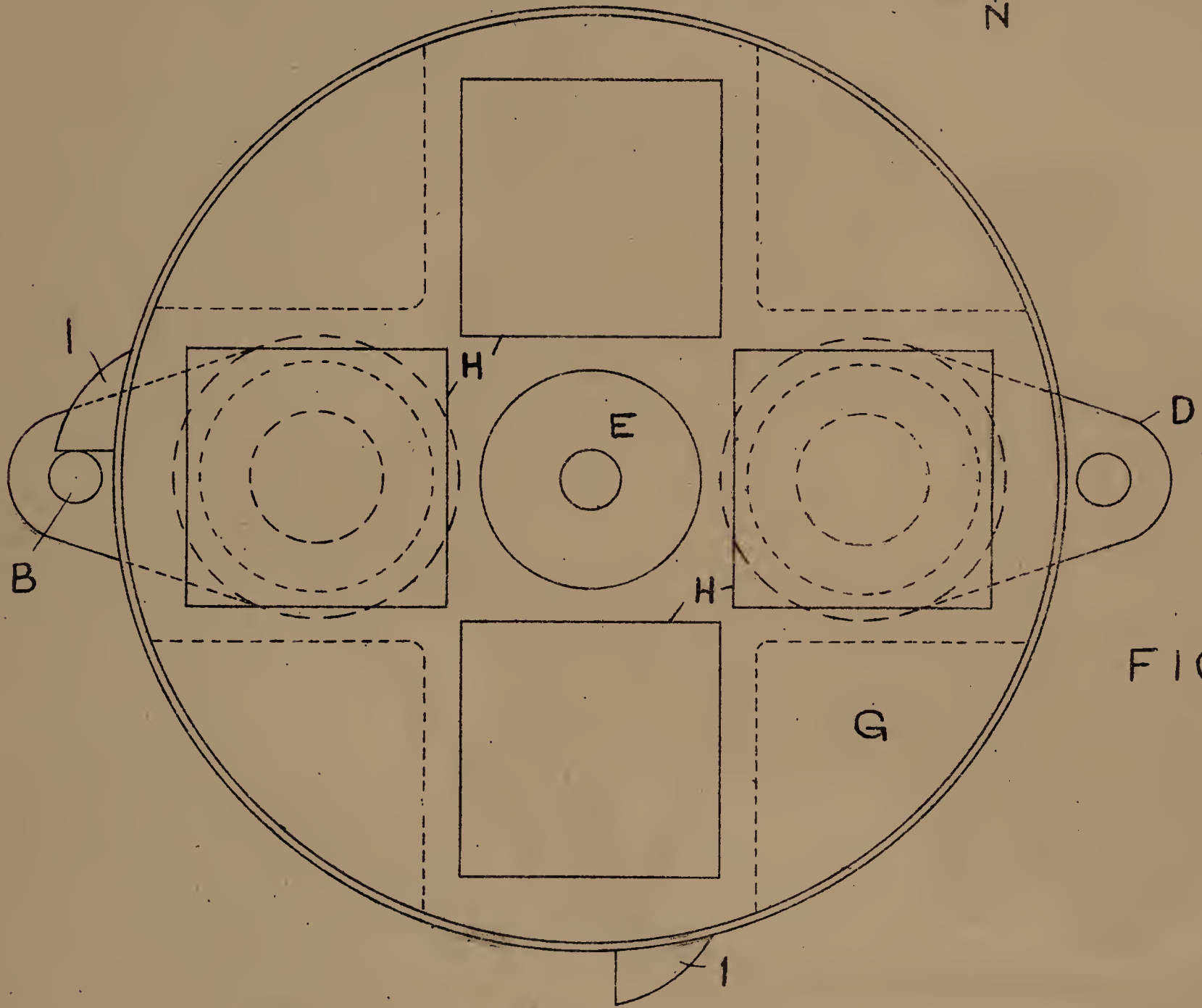


FIG. 2.

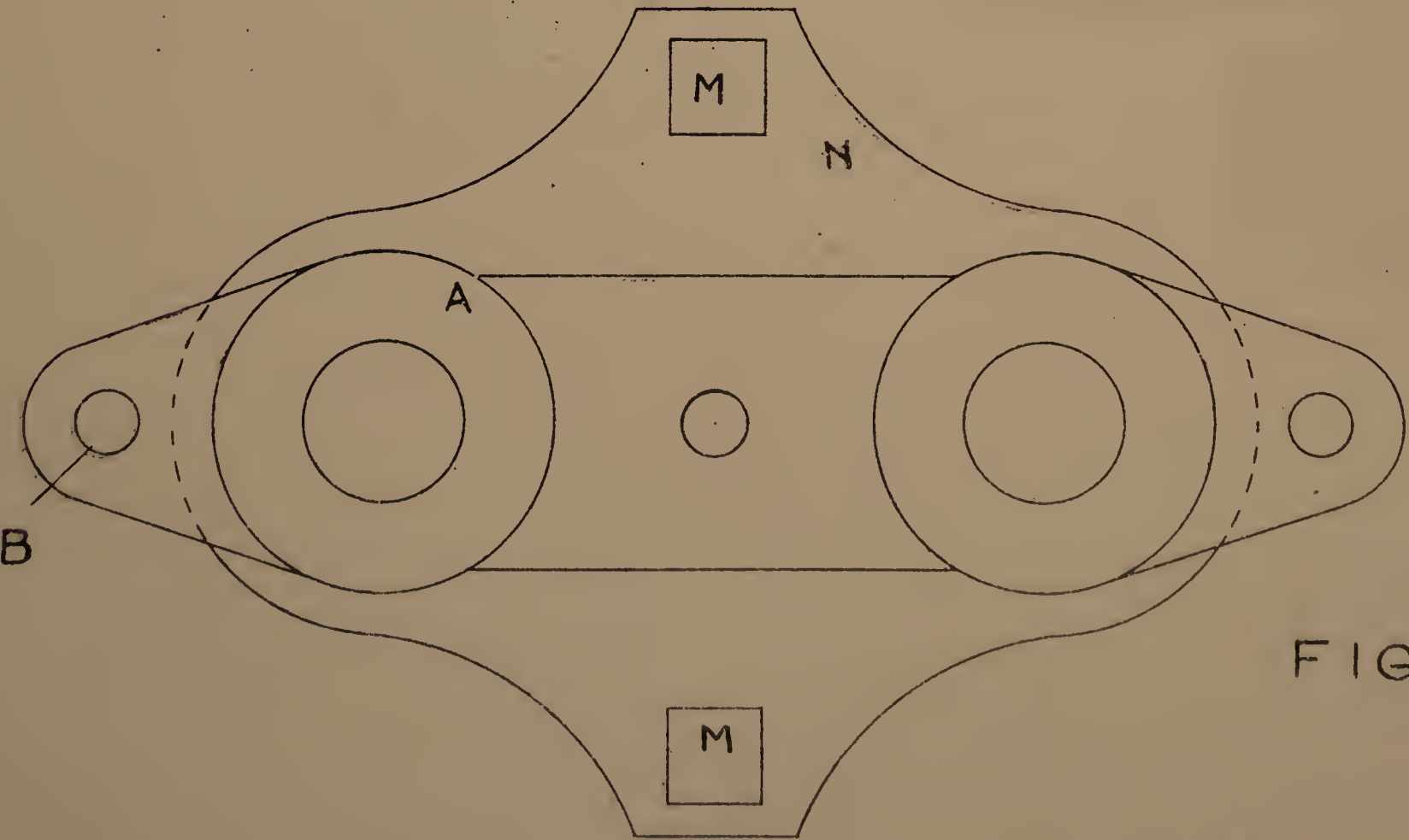


FIG. 3.

[This Drawing is a reproduction of the Original on a reduced scale.]

